



05/07/97

35/1

#5a

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: FUCHS, Martin
EGHOLM, Michael
O'KEEFE, Heather
YOA, Xian-Wei
- (ii) TITLE OF INVENTION: METHODS AND KITS FOR HYBRIDIZATION
ANALYSIS USING PEPTIDE NUCLEIC ACID PROBES
- (iii) NUMBER OF SEQUENCES: 10
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Patent Administrator, Testa Hurwitz &
Thibeault, LLP
 - (B) STREET: 125 High Street
 - (C) CITY: Boston
 - (D) STATE: Massachusetts
 - (E) COUNTRY: USA
 - (F) ZIP: 02110
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
 - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: TURANO, THOMAS A.
 - (B) REGISTRATION NUMBER: 35,722
 - (C) REFERENCE/DOCKET NUMBER: SYP-116
- (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: (617) 248-7000
 - (B) TELEFAX: (617) 248-7100

(2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
 - (A) DESCRIPTION: /desc = "biotinylated peptide
nucleic acid"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

ATGCAGGAGT CGCAT

15

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
 (A) DESCRIPTION: /desc = "fluorescein labeled peptide nucleic acid"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

CTTTCCTCCA CTGTT

15

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 15 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
 (A) DESCRIPTION: /desc = "fluorescein labeled peptide nucleic acid"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CTTTCCTTCA CTGTT

15

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 15 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
 (A) DESCRIPTION: /desc = "fluorescein labeled peptide nucleic acid"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

GGTCACTATC AGTCA

15

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 15 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
 (A) DESCRIPTION: /desc = "fluorescein labeled peptide nucleic acid"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

TTTTCCCAGT CACGA

15

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 15 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
 (A) DESCRIPTION: /desc = "fluorescein labeled peptide nucleic acid"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
 TTTTCCCAGG CACGA 15

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 15 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
 (A) DESCRIPTION: /desc = "fluorescein labeled peptide nucleic acid"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
 TTTTCACAGG CACGA 15

(2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 13 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
 (A) DESCRIPTION: /desc = "fluorescein labeled peptide nucleic acid"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
 AAACACCAAA GAT 13

(2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 13 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
 (A) DESCRIPTION: /desc = "fluorescein labeled peptide nucleic acid"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

ACACCAATGA TAT

(2) INFORMATION FOR SEQ ID NO:10:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

ATGCGACTCC TGCAT